

Use Attainability Analysis

for

WBID 1283 Elm Branch

Submitted by BWR

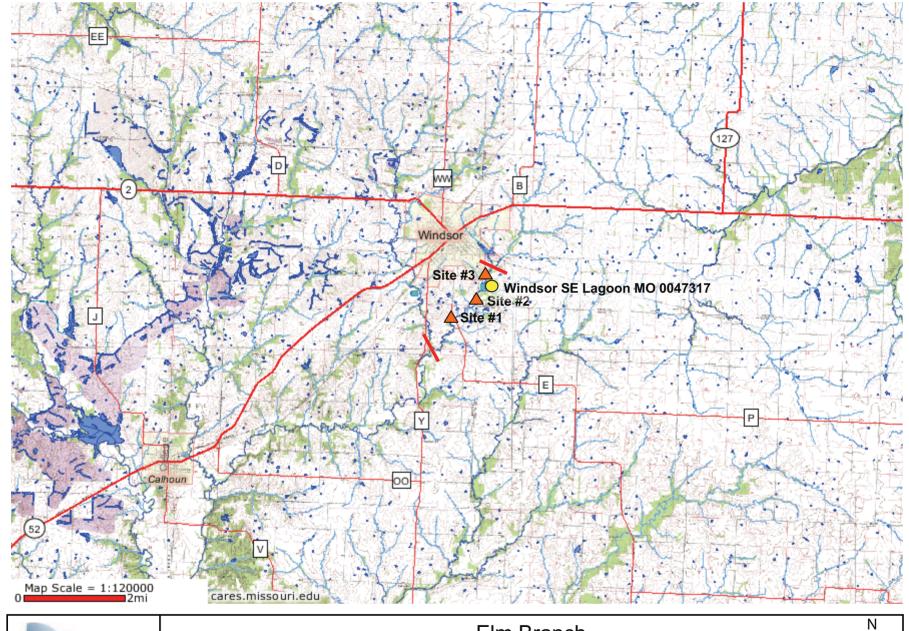
June 1, 2007

Submitted to:
Missouri Department of Natural Resources
Division of Environmental Quality
Water Protection Program

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet A - Water Body Identification Water Body Information (For water body being surveyed)

water body is	normation (for water body being s	urveyea)					
Water Body N	Name (from USGS 7.5' quad):	Elm	Branch				
Missouri Wate	er Body Identification (WBID) Nu	ımber:	1283				
8-digit HUC:	10290108		County: PettiS				
Upstream Leg	gal Description (from Table H):	MOL	Th				
Downstream !	Legal Description(from Table H):	12,	43 N, 24 W				
Number of sit	tes evaluated 3						
List all sites r	numbers, listed consequently upstr	eam to do	ownstream:				
	3,2,1						
ite Locations l	Man(s): Attach a man of entire se	oment wi	th assessment sites clearly labeled. Mark				
	that may be of interest.						
-							
I. Subegmenta	tion (fill this section out only in consistence of the consistence of	cases whe	ere subesgmentation is being proposed)				
Upstream Co			Downstream Coordinates:	*****			
ÚTM X	Y		UTM X Y				
	LECTION METHOD (Indicate the method used to d Global Positioning System (GPS)						
Static Mode			Topographic Map or DRG				
Dynamic Mode	(Kinematic)	1	Aerial Photograph or DOQQ				
Precise Position	ning Service	 	Satellite Imagery				
Signal Averagir	ng		Interpolation Other				
Real Time Diffe	erential Processing	1		-2			
	URACY, ESTIMATE 1			add of			
	GPS Data Quality		Interpolation Data Quality				
FOM	±Meters		Source Map Scale: 1:24,000 1:100,000 Other				
EPE	±Feet or ±/\	/leters	± Feet or ± Meters				
PDOP II Disabaygay	Facility Information (list all perm	aittad diaa					
	D *11. 3.7 / / /						
Discharger	Facility Name(s): Wind	MON	SE Lagoon				
Discharger 1	Permit Number(s):		0 0047317				
			0001,017				
	eyor (please print legibly)		Talankan Name (Card West - Or office				
	rveyor Alan Mitchell		Telephone Number: (212)(205720)				
Position:	n/Employer:	nHist	(9/3/600 13/10				
rosition.	Environmental Scien	11771					
Please verify tl	hat you have completed all section	ons, chec	ked all applicable boxes and that everything is				
complete.		,					
M	De Shert 1.11		and Min and constitution				
Signed:	W. Witchell		Date: <u>May 17, 2007</u>				
February	5, 2007		Page 22				





Elm Branch WBID #1283



WBI Site#			Field		ta Sh	eet B	- Site (onal Use Characte I for each s	erizatio	<i>n Surveys</i> on		
	Date & Time:)/	0.00	· · · / ·	7/00		or bo o	1			., road crossing):		
-	Personnel (Data Collectors): Alay Mitchell Tombel					-1.	becar Road Crossing-Dridge					
	Current Weather			•	100	य भारा	Facility	,		or se la	,	420 <u> </u>
-	Weather Condition		ر ملت مرس			· -	Permit N				3001	
-	· <u></u>			<u>/</u>						1004 7317	<u> </u>	
	Drought Conditions:		ought 🗷:	Phase I]; Phase	II □; F	Phase III 🗌	; Phase IV]; Unkno	wn 🗆		
			IVERSAL T	RANSVER	SE MER	CATOR F	POJECTION	DI METERS				
	Site GPS Coord					_			5092	_ &		Model.
F	HORIZONTAL CO	LLECTION M	ETHOD (Inc	ficate the n	nethod us	ed to detr	emine the loc	ational data.)			erse la latera	
H	Static Mode	Global F	Positioning	System (GPS)			Topographic	Man or DF	Interpolati	п	
	Dynamic Mode (Kin	nematic)						Aerial Photo				
	Precise Positioning	Service						Satellite Ima	gery			
_	Signal Averaging							interpolation	Other			
-	Real Time Different	-	•		27 - 1 2 - 12 - 12 - 12 - 12 - 12 - 12 - 12 - 12 -							
<u> </u>	TO MICHIAL MC	ARM TESI	GPS Data		_ortest=		阿拉尔 斯斯					
F	FOM							· · · · · · · · · · · · · · · · · · ·		Interpolation Dat	a Quality	
-								Source	e Map Sca	le: 1:24,000 1:100,0	000 Other	
-	EPE	<u></u>	Fe	etor±_		Meters			± _	Feet or ±	Meters	
	PDOP		· · · · <u>-</u>				· <u>-</u> —					
Pno	otos:				l							
		pstream Pho	otos			D	Downstream	ownstream Photos			Other Photos	
-	Photo ID#	Pho	to Purpos	e :	Photo		P	Photo Purpose Photo ID#			Photo Pur	pose
	/				_	2					_	
Use	es Observed	l*: (Uses a	actually	observe	ed at ti	me of	survey.)					
<u> </u>	☐ Swimming		☐ Skin	diving		□ sc	UBA divin	g	☐ Tubi	ng	☐ Water skii	ng
	☐ Wind surfing	<u> </u>	☐ Kaya	king		□Во	ating	ating 🔲 Wading			☐ Rafting	
	☐ Hunting		☐ Trap			☐ Fis					☐ Other:	
	Use Interview w	hen conduct	ting interv	iews.)							se Data Sheet D- I	Recreational
unu	rrounding C sual items of i	interest.)	S^: (Ma	rk all th	at pron	iote or	· impede r	ecreationa	l uses.	Attach photos	of evidence or	
-	☐ City/county	parks	☐ Play	grounds	□м	IDC cor	nservation l	ands	☐ Urba	in areas	☐ Campgrou	ınds
	☐ Boating acce	esses	☐ State	parks		Vational	forests		□Natu	re trails	☐ Stairs/wall	kway
L	☐ No trespass sign ☐ Fence ☐ Steep slo				pes		□None	of the above	Other: To	rom		
	Comments:			·								
Ind	lications of l	Human L	J se*: (a	ttach pl	hotos)							
	Roads	☐ Rope	swings	☐ Foo	t paths/p	rints	□ Dock/	platform .	□Li	vestock Watering	□ RV/ATV	Fracks
	☐ Camping Site		<u>.</u>		pit/ring			S Discharge	□ Fi	shing Tackle	☐ Other:	
Į	Comments: / February	Vo sign	rifice	ut ou	ans a	& hu	war.	1900				
	February :	5, 2007 [′] <	ZW. S	W. EL	AE,Ir	Ser .	5/17/	2007			Page 2	23

age Two – Data eam Morpholog	الا ر					and the second s	
Jpstream View's	Physical Dime	ensions: Is	s there any water	present at	this view?	PYes DNo	
			If so, is there an o	bvious cu	rrent?	☑Yes □ No	
Select one of the							
Channel Feature RIFFLE	Distance from	access (m)	Width (m)	Lengt	h (m)	Median Depth (m)	Max. Depth (m)
RUN	 						
POOL ·		/	8	∞		0.5	0.7
				 :			
Downstream Vie	w's Physical Di	imensions	: Is there any wat	-			
Select one of the	following chan	nel featur	If so, is there are	i opvious	current?	□ Yes □ N	0
Channel Feature	Distance from		Width (m)	Lengt	h (m)	Median Depth (m)	Max. Depth (m)
RIFFLE							
RUN POOL	<u> </u>						
							<u> </u>
ostrate*: (These % Cobbl		d up to 100 Gravel					
70 00001	<u> </u>	GIAVEL	% Sand	<u>90</u>	% Silt	9 % Mud/Clay	
uatic Vegetatio	n*: (Note amour	nt of vegeta	tion or algal growth	at the asse	essment site	e)	
	·			at the asse	essment site	e)	
uatic Vegetatio	·)		essment site		
ter Characteri	stics*: (Mark al	l that apply	.) cy 🛭 Chemi		None	□ Other:	
ter Characteri	stics*: (Mark al ☐ Sewage	l that apply	xy □ Chemi n □ Gray	ical .			
ter Characteri Odor: Color:	stics*: (Mark al Sewage Clear	l that apply	cy	ical .	☑ None □ Milky	□ Other:	
Odor: Color: Bottom Deposit: Surface Deposit:	stics*: (Mark al Sewage Clear Sludge Oil	l that apply Musl Green Solid	y □ Chemi n □ Gray	ical ediments	□ None □ Milky □ None	☐ Other: ☐ Other:	
Odor: Color: Bottom Deposit: Surface Deposit: mments: Please	stics*: (Mark al Sewage Clear Sludge Oil	l that apply Musk Green Solid Scum	cy	ical ediments	□ None □ Milky □ None □ None	☐ Other: ☐ Other: ☐ Other: ☐ Other:	
Color: Bottom Deposit: Surface Deposit: mments: Please is information is no prehensive underst	stics*: (Mark al	l that apply Musk Green Solid Scum ditional conditions.	cy	ical ediments is form. use design	None Milky None None	Other: Other: Other: Other:	ence a
Color: Bottom Deposit: Surface Deposit: mments: Please is information is no prehensive underst	stics*: (Mark al	l that apply Musk Green Solid Scum ditional conditions.	cy	ical ediments is form. use design	None Milky None None	☐ Other: ☐ Other: ☐ Other: ☐ Other:	ence a
Odor: Color: Bottom Deposit: Surface Deposit: mments: Please is information is not prehensive underst sion on the recreation	stics*: (Mark al Sewage Clear Sludge Oil attach any add to be used solel anding of water con use analysis b	l that apply Musl Green Solid Scum ditional country for remove	cy	ical ediments is form. use design informationeed furth	None None None None ation but ran is not inter analysis	Other: Other: Other: Other:	ence a use.
Odor: Color: Bottom Deposit: Surface Deposit: mments: Please is information is not prehensive underst sion on the recreation	stics*: (Mark al Sewage Clear Sludge Oil attach any add to be used solel anding of water con use analysis bou have completed	l that apply Musk Green Solid Scurr ditional conditions. tut may point sted all sec	cy	ical ediments is form. use design information need furth	None None None None None None	Other: Other: Other: Other:	ence a use. g is complete.

	1283 #1					
	Distance from	Depth	Rank	Assigned Rank	Sorted depth	Photo
_	Stream edge			(Riffle, Run,	or 1901?)	
l	Wetted widtn=	0.1		1 Run	1	upstra
Γ 2	8 - m	0.5		2	2)	down
$\int_A \frac{2}{3}$		0.6		3 , 3	J. 10°	91 10
4		0.6		4 DO: 4,2	10-ppm,	
LtoR5		0.7		5 45		
(0.6		6		
-		0.5		. 7		
8	}	0.4		. 8		1
6	<u> </u>	0.2		9		4
		0.1		10		
, , n	1 Bm Width	0.05		11		
LtoR	<u> </u>	$\frac{1}{\sqrt{0.3}}$	·	12]
	3	/ 0·5 0·8		13	1	4
TB 5	<u> </u>	0.8		14	1600	4
. 45		1.0+		15	48.%	4
	0	1.0#		16	4.7 PPM	-
	1	0.9		17		-
0	}	1 0.7		19		-{
i i	6	04		20		\dashv
	10 (1111	0.05		20 21		
LtoR	7	0.4		22 16.20	5.2 ppm	4
	3	1.0	-	23 53%	J	1
		1.0+		24		
1, "		1.04		25		┪
· 🗀 🔓	0	1.0+		26		7
	7	1.0+		.;		7
	8	1.0+				
4	7	1.0				
	סו	D:05		n		
			<i>:</i>	-		7

If there is an odd number of entries find middle rank [(n+1)/2]. The corresponding sorted value depth to the middle rank is the median depth.

If there is an even number of entries, the median depth corresponds to the arithmetic average of the two depth values surrounding the middle rank.

I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA datasheet is true and accurate.

Signed: Marth Mitchell	Date: May 17, 2007
Organization: EAE,/nc-	Position: Env. Eugr
February 5, 2007	Page 25

12B3 #1

	Distance from Stream edge	Depth	Rank	Assigned Rank	Sorted depth
1	8m Width	0		1	16.5°
TD 234507		0	,	. 2	16.5° 55% 5.3 pem
$\frac{1}{D}$ $\frac{2}{3}$		0.2 0.3 0.4		3	5.3 ppm
1 4,04		0.3		4	
5117		0.4		5	
i		0.4		6	
7		0.3		7	
8		0.2		8	
9		0.2		9	
10		0.4		10	
	10 m Width			11	
2		0.5		12	16.40
T _E 3		10		13	55% 5.4 ppm
·E 4		1.0+		14	5.4 ppm
L toRS		lot		15	
- 6		1.0+		16	
7		1.0+		17	
7		0.4		18	
9		0.4		19	
10		-0.05		20	
. 1	5.5 m width	0.10		21	
· 2		0·10 0·3 0·4		22	16.5°
7 5		0.4		23	16.5° 59% 5.5 ppm
TE STATE	1	04		24	5.5 ppm
LtoK5	·	0.5		25	
<u>ن</u> -		0.7		26	
-	1	6.7			
8		0.7			
C	1.	0.0			
ſ	P	0.5		n	
				-	

If there is an odd number of entries find middle rank [(n+1)/2]. The corresponding sorted value depth to the middle rank is the median depth.

If there is an even number of entries, the median depth corresponds to the arithmetic average of the two depth values surrounding the middle rank.

Signed: Men StateMIN	Date: Macy 17, 2007
Organization: <u>FAE, Inc.</u>	Position: Sw. Eugr.
February 5, 2007	Page 2

		1283 #1				
		Distance from	Depth	Rank	Assigned Rank	Sorted depth
		Stream edge				
	ŧ	6 m width	0.05		1	
TE	2		0.1	,	2	16.70
	2 3		0.3		3	60% 5.7 pom
	4		0.5		4	5.7 ppm
	5		0.6		5	3 1 1 2 1
	5.6		0.6		6	
	٦		0.6		7	
	8		0.6		8	
	9		0.4		9	
	10		0.1		10	
	1	5m Width	0.05		11	
			0.10		12	16.70
4	2		0.2		13	60%
7	2 3 4		0.4		14	60% 5.8 ppn
	5		016		15	O PPIN
	6		0.6		16	
	Ť		0.5		17	
	7		0.4		18	
	a		0.3		19	
	9		0.10		20	
	ı	Umwidth	0.05		21	
_			0.10		22	16.70
[2 3 4		0.2		23	16.70
_	ر پ		0.2		24	U.Oppm
	خ		0.3		25	
	ی		0.3		26	
	-		0.3		26	
	8		0.2			
	q		0.1			
	}(0.05		n	
	, '					

If there is an odd number of entries find middle rank [(n+1)/2]. The corresponding sorted value depth to the middle rank is the median depth.

If there is an even number of entries, the median depth corresponds to the arithmetic average of the two depth values surrounding the middle rank.

I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA datasheet is true and accurate.

Signed: Glavle MIChell	Date: May 17, 2007
Organization: EAE, Inc.	Position: ENV- Engls,

February 5, 2007

		1283 #1 Distance from	Depth	Rank	Assigned Rank	Sorted depth
		Stream edge				Bortou dopar
J	Į	5m width	0.05		1	10.70
J	2			,	2	62%
	2 2 7 57.9		0.10		3	5.9 ppm
	Ų		0.2		4	, , , , , , , , , , , , , , , , , , ,
	5		0.2		5	
	(O		0.2		6	
	7		0.1		7	
	8		0.1		8	
	9		6.05		9	
	10		0.05		10	
	1.	5m Width	0.1		11	
	1234		0.3		12	16.8°
Γ	3		0.5		13	60.%
K			0.6		14	5.7 ppm
-	5 6		0.0		15	
			5.6		16	
	7		0.6		17	
	8		0.5		18	
	9		0.3		19	
	10		$\frac{1}{1}$		20	
•					21 22	
					23	
					24	
					25	
					26	
					.;	-
					++:	
					1.	
					n	

If there is an odd number of entries find middle rank [(n+1)/2]. The corresponding sorted value depth to the middle rank is the median depth.

If there is an even number of entries, the median depth corresponds to the arithmetic average of the two depth values surrounding the middle rank.

I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA datasheet is true and accurate.

Signed: Made Htchell	Date: Hue 17, 2007	
Organization: EAE, Inc.	Position: EN. Engl	
February 5, 2007		Page 25

	ID# <u> </u> 2 83 #_2		Field Data S Da	ta Sh	eet B	- Site (Charact	erizati		
Γ	D . 0 T			(mu:	st be c	T	for each			
<u> </u>	Date & Time:	1:00 pm	<u> </u>	11-12	4. 2	Site Loc	ation Descri	iption (c.g	road crossing):	•
	Personnel (Data	Collectors):	Alou Mitche	N HO	unwa	Brid	dge			
	Current Weather	Conditions:	Clear			Facility	Name: N	vindsc	or SE Lac	NOOK
	Weather Conditi	ions for Past				Permit 1			0047317	
	Drought Conditi	ons? No dre	ought 🗷; Phase I 🗆	l· Phase	и ∏ ∙ р	hase III 🗆	· Phase IV [
Sif	e Locations		<u> </u>	-, 1 11450		11430 111 -	, I Hase I v	<u></u>	5411 L	zone 14
[IVERSAL TRANSVER	SE WER	CATOR P	HOJECTION	(IN METERS		5.20 - A. 1979 - 14	
. [Site GPS Coor	dinates: UT	TM X: 93.5	215	9°W	· ;	Y: 38	508	77° N	
į	HORIZONTAL CO	LLECTION M	ETHOO (Indicate the m				cational data.)			
[0.0.1	Global F	Positioning System (GPS)					Interpolati	on
}	Static Mode Dynamic Mode (Ki	nematic)					Topographi Aerial Phot			· · · · · · · · · · · · · · · · · · ·
Ì	Precise Positioning						Satellite Im		.0QQ	
Ì	Signal Averaging						Interpolatio			
ļ	Real Time Differer	tial Processing	<u> </u>				<u> </u>			
	HORIZONIAL AC	CURACY EST	BATE			产业类型 。		Elifent St.	every to see	
			GPS Data Quality		,		Interpolation Data Quality			
	FOM	±	Meters			Source Man Seeler 4:24 DDD 4:400 DDD Chlor				
	EPE	±	Feet or ±		Meters	Source Map Scale: 1:24,000 1:100,000 Other				
	PDOP			· ·			±Feet or ±Meters			
Ph	otos:									
	J	Jpstream Pho	otos		D	ownstream	Photos			Other Photos
	Photo ID#	Pho	oto Purpose	Photo	ID#	P	hoto Purpos	se	Photo ID#	Photo Purpose
	3	to show	w istremu		4	40 5h	vustre	ean.		
Us	es Observe	d*: (Uses a	actually observe	ed at ti	me of	survey.)				
	☐ Swimming		☐ Skin diving		□ sc	UBA divin	ıg	☐ Tub	ing	☐ Water skiing
	☐ Wind surfing	g	☐ Kayaking		□Во	ating		☐ Wac	ding	Rafting
	☐ Hunting	☐ Hunting ☐ Trapping			☐ Fis			None of the above		☐ Other:
	Describe: (Include number of individuals recreating, photo-documentation of evidence of recreational uses, etc. Use Data Sheet D- Recreational Use Interview when conducting interviews.)									
			s*: (Mark all th	at pron	note or	impede	recreation	al uses.	Attach photos	of evidence or
uni	usual items of	interest.)		·			<u> </u>	,	- 	
	☐ City/county	parks	☐ Playgrounds		IDC cor	nservation l	ands	☐ Urb	an areas	☐ Campgrounds
	☐ Boating acc	esses	☐ State parks	1 🗆 1	Vational	forests		☐ Natu	ire trails	☐ Stairs/walkway
	☐ No trespass sign ☐ Fence ☐ Steep slop			opes			Other: Tarm			

Indications of Human Use*: (attach photos)

□ Roads □ Rope swings □ Foot paths/prints □ Dock/platform □ Livestock Watering □ RV / ATV Tracks
□ Camping Sites □ Fire pit/ring □ NPDES Discharge □ Fishing Tackle □ Other:

Comments:

rebruary 5, 2007 All. M. EAE, Inc. 5/17/2007

•					C	hannel Feature	ν :
					B	un/	
* Page Two – Data	Sheet R for V	WRID#	1223 . #	ر9	l.	PUN VEPTE	
Stream Morpholog	ay:	топо п	. 41.		7	30-	
Upstream View's	,	ensions: Is	there any water	present at	this view	? ☑ Yes ☐ No	
•	•		f so, is there an o			✓ Yes □ No	
Select one of the	following chan			ovious cu	mont	152 □ 140	
Channel Feature	Distance from		Width (m)	Lengt	h (m)	Median Depth (m)	Max. Depth (m)
RIFFLE							
RUN	100 u		Bu	∞)	0.5	40
POOL							
Downstream Vie	following chan	nel feature	If so, is there ar	•		ew?	
Channel Feature RIFFLE	Distance from	access (m)	Width (m)	Lengt	h (m)	Median Depth (m)	Max. Depth (m)
RUN	200.	140	8 m	190		0.5	1.0
POOL							1,0
Substrate*: (These	values should ad	d up to 1009	%.)				
% Cobbl	e 0 %	Gravel	つ % Sand	50	% Silt	50 % Mud/Clay	♥ Bedro
Water Characteris	r none	l that apply.)				
Odor:	☐ Sewage	□Musk		ical	□ None	☐ Other:	
Color:	☐ Clear	[] Green	n □ Gray		☐ Milky	☐ Other:	· · · · · · · · · · · · · · · · · · ·
Bottom Deposit:	☐ Sludge	☐ Solid	Fine s	ediments	□ None	☐ Other:	
Surface Deposit:	□ Oil	☐ Scum	☐ Foam		None	☐ Other:	
*This information is no comprehensive underst decision on the recreati Please verify that you Surveyor's Signature	ot to be used sole anding of water of ion use analysis b ou have comple	y for remove conditions. Out may poin eted all sec	al of a recreational Consequently, this t to conditions that tions, checked a	use design informatio need furth	n is not int er analysis ble boxes	ended to directly influe or that effect another u and that everything	nce a ise. g is complete.
Surveyor's Signature Organization: Fo	ne la				مر	May 17, 200 Euge	/
Organization: F	ac, pur			_ Position	n: <u>aw</u>	cugr	

February 5, 2007

Data Sheet C - Cross-Sectional Depth Measurements (for estimation of median depth)

	i	~	•	1 -3	
	1283 H				
	Distance from	Depth	Rank	Assigned Rank	Sorted depth
	Stream edge	-			or 1001?)
	! Wetted width =	0,05		1	
,	2 5 m	02		2	
	3	0.4		3 82	
	2 5 m	0.6		4 DO: 5.6	-ppm,
	5	1.0		5 (0)	
	5 0 7	0.7		6	
	7	0.6		7	
	8	0.4		8	
	9	0.2		9	
	10	0.10	 	10	
	1 5m Width	0.05		11	
	2	7.3	· · · · · · · · · · · · · · · · · ·	12	1820
	3	0.0	, r	13	1010/0
-	4			14	61% 5.0 ppm
3	5	0.5		15	
,	ω	0.4	· - · · · · · · · · · · · · · · · · ·	16	
	7	0.2		17	
	8	0.2		18	
	9	1300 O. I		19	
	10	0.05		20	
- 	1 7.5 m Width	D.05		21	
		0.1		22	1710
	2 3	0.3		23	60%
•	4	12.6		24	60% 5.8 ppm
r	5	0.8		25	5.6
_	4	0.7	·	26	
	7	6.7		1 .;	
	8	0.6			
	8	0.4		1.	
	וס	0.1		n	
				-	

If there is an odd number of entries find middle rank [(n+1)/2]. The corresponding sorted value depth to the middle rank is the median depth.

If there is an even number of entries, the median depth corresponds to the arithmetic average of the two depth values surrounding the middle rank.

Signed: Alau W. W. Tekell	Date: 5/17/2007
Organization: EAE, Inc.	Position: Environmental Engineer
February 5, 2007	Page 25

D	istance from	Depth	Rank	Assigned Rank	Sorted depth
. 3	tream edge 5º m	0.00			
<u> </u>	5= m	0.05		1	
2		0.1	,	. 2	18°
		0.2		3	604°/0 63%
4		0.3		4	(0:0 ppm
5 _		0.4		5	
<i>`</i> ⊌ _		0.4		6	
ר _		0.4		7	
8		0.3		8	
9		0.3		9	
19		0.3 0.3 0.05		10	
		0.05		11	
1 2 3 4 5		0.05		12	18° 62% 6.0ppm
3		0.2		13	62%
4		0.3		14	(010 00m
.5		0.5	-	15	
6 L		0.7 0.7 0.4 0.05		16	of the state of th
ユ		0.7		17	
7		0.4		18	
9		0.0		19	
10		0.05		20	
		0.1		21	
2		0.2		22	17.90
2 3		0.3		23	70%
4		0.4		24	70% 6.2 ppm
.5		0.4		25	P-F-X
6		0.3		_ 26	
7		0.2		.;	
8 [0.1			
9		0.1			
10		0.05		n	
•				•	

If there is an odd number of entries find middle rank [(n+1)/2]. The corresponding sorted value depth to the middle rank is the median depth.

If there is an even number of entries, the median depth corresponds to the arithmetic average of the two depth values surrounding the middle rank.

Signed: Alex H. W. Titull	Date: 5/19/2007
Organization: FAE, INC.	Position: Environmental Engineer
February 5, 2007	Page 25

	1283 #2				· · · · · · · · · · · · · · · · · · ·
	Distance from	n Depth	Rank	Assigned Rank	Sorted depth
	Stream edge				
-	1 9m Wid			1	18.1.
	2	0.3		2	49 67%
	3	0.5		3	to 2 ppm
	4	0.6		4	Coil ppm
	5	0.6		5	
	<i>\(\)</i>	0.0		6	
	7	0.5		7	
	8	0.4		8	
	9	0.05		9	
	10	0.05		10	
	1 Bm Widt	h 0.05 0.3		11	
	2 3 4	6.3		12	+8° 17.9
	3	6.4		13	69%
	식	6.4		14	6.5 ppn
	5	0.3		15	<u> </u>
	<u>ر</u>	0.4		16	
	8	0.4		17	
		0.3		18	
	9	0.2		19	
	10	0.05		20	
	1 &m Widt	th 0.1		21	
	2	8.3		22	18.1
	3	0.3		23	18.1° (02.060 (0.2.ppm
		013		24	6.2 ppm
	5	0.5		25	
	<i>(</i>	6.5		26	
	1	6.4			
	8	0.3			
	9	0.2			
	10	0.2		n	
	ŀ			•	1

If there is an odd number of entries find middle rank [(n+1)/2]. The corresponding sorted value depth to the middle rank is the median depth.

If there is an even number of entries, the median depth corresponds to the arithmetic average of the two depth values surrounding the middle rank.

Signed: Malle Mile Mell	Date: May 17, 2007
Organization: EAE, Inc.	Position: Eur. Eugh
February 5, 2007	Page 25

		Distance from Stream edge	Depth	Rank		Assigned Rank	Sorted depth
	ı	8m Width	ויכיז			1	18-7.
Г	9		0:3	,		2	18-2.
	2 2757.59		0.4			3	10.5 ppm
	ָן ד		0,5			4	- CO - D FIGHT
	5		6.7			5	
	io		0.7			6	
	Ť		0.7			7	
	7890		0.3			8	
	ä		8.2			9	
	iÒ		0./2			10	
	1	8 m Width	9.1			11	18:5°
	2		1 2,3			12	18:5°
-	2 3 4		0.5 0.5 0.5			13	7.0ppm
<i>-</i>	4		0.5			14	
^	5		0.5			15	
	Ū		0.5			16	
	7		0.5		-	17	
	8		0.5			18	
	9		0.3			19	
	IV		0.05			20	
						21	
						22	
						23	
						24	
						25	
						26	
						•	
						•	
						n	
					Ţ	•	

If there is an odd number of entries find middle rank [(n+1)/2]. The corresponding sorted value depth to the middle rank is the median depth.

If there is an even number of entries, the median depth corresponds to the arithmetic average of the two depth values surrounding the middle rank.

Signed: Much M Tehell	Date: 5/17/2007
Organization: EAE, Ivic.	Position: Environmental Engineer
February 5, 2007	Page 25

Date & Time:			(mu	st be c	ompleted	for each si	te)			
	4:00	nee 5/17/	07		Site Loca	tion Descript	ion (c.g	., road crossing):		
Personnel (Dat	* ;		1/ 15	Llower All	Faru	· Field				
Current Weath	er Conditions	Clear	10	1 3	Facility N		imeo	r SE Lac	*:OO()	
Weather Cond	tions for Past	: 10 days:	•		Permit N	V V 1	AADI	XX-1-317	J	
					<u> </u>	•	<u> </u>			
Drought Condi		ought 🗹; Phase I	⊥; Phase	: II L.J; P	'hase III ∟i;	Phase IV L	; Unkno	own 🗀		
		WERSAL TRANSVE	PSÉ MER	CATOR F	MOJECTION,	M WETERS)				
Site GPS Co	ordinates: U'	гм х: 93.5	2170	プロル	/ ;	r: 38.	505	29° N		
HORIZONTAL (ETHOD (Indicate the		ed to dete	armine the loca	tional data.)	6 T.	of this tensor.		
Static Mode	Global	Positioning System	(GPS)			Topographic N	Map or Di	Interpolat	ion	
Dynamic Mode (Aerial Photogr	raph or D			
Precise Positioni	-					Satellite Image	ery			
Signal Averaging						Interpolation (Other			
Real Time Differ		-	ila sa cial and	Company Charles 184	A STATE OF THE STA	asiai kalaysia yang albisi san	and a Control of the			
TO THE STATE OF	CUMPLE ESI	GPS Data Quality		la propinsi			estimate de	Interpolation Dat	Outliby	
FOM	±	<u> </u>						interpolation bat	a Quality	
						Source Map Scale: 1:24,000 1:100,000 Other				
PDOP	EPE				±Feet or ±Meters					
Photos:										
notos.	Y I DI.									
	Upstream Ph				ownstream I	hotos		1	Other Photos	
Photo ID#	Pho	oto Purpose	Photo	ID#	1	Photo Purpose Photo ID#		Photo Purpose		
6		how upstream	1 .	5	70 S M	overtre	<u> 244</u>			
Jses Observe	ed^: (Uses	actually observ	ed at t	ime of	survey.)	··· · · · · · · · · · · · · · · · · ·			1	
☐ Swimming		☐ Skin diving		□ sc	UBA diving	1	☐ Tubi	ing	☐ Water skiing	
☐ Wind surfi	ng	☐ Kayaking		☐ Boating] [☐ Wading		☐ Rafting	
☐ Hunting	•	☐ Trapping		☐ Fis	shing		Von	e of the above	Other:	
Describe: (Inc Use Interview	lude number owner when conduc		ating, ph						se Data Sheet D- Recreation	
Surrounding inusual items o	Condition f interest.)	s*: (Mark all th	at pron	note or	impede re	creational	uses.	Attach photos	of evidence or	
☐ City/coun	y parks	☐ Playgrounds		ADC cor	servation la	nds	□ Urba	an areas	☐ Campgrounds	
☐ Boating a	☐ Boating accesses ☐ State parks ☐ National if			forests			re trails	☐ Stairs/walkway		
☐ No trespas	s sign	☐ Fence		Steep slo				e of the above	Other: Form	
Comments:		1		_ 100 p 010	. p - 50	. <u></u>	- NOIL	2 01 mg 40046	the Other + # *NV	
ndications o	Human l	Jse*: (attach p	hotosì							

☐ NPDES Discharge

☐ Fishing Tackle

☐ Fire pit/ring

☐ Camping Sites

Comments:

Other:

Upstream View'	s Physical Dimensions:	Is there any water p	resent at this view	? Yes \ \ No	
	•	If so, is there an ob	vious current?	Yes No	
Select one of the	following channel featu	res:			
Channel Feature	Distance from access (m)		Length (m)	Median Depth (m)	Max. Depth (m
RIFFLE					
RUN	100	7.0 WQ		0.6	1.0
POOL					
	ew's Physical Dimension	If so, is there an		ew? 🗆 Yes 🗀 No	
Channel Feature	following channel feature Distance from access (m)	Width (m)	Length (m)	Median Depth (m)	Max. Depth (m
RIFFLE	(4.7)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Dengar (III)	wiedian Deput (in)	Max. Deput (III
RUN	200	4.0		Oe1	10.1
POOL				(Je/	(O 6)
strate*: (These	values should add up to 10	00%.)			<u> </u>
% Cobb		o % Sand	50 % Silt	56 % Mud/Clay	O % Bedr
ıter Characteri	istics*: (Mark all that appl	y.)			
Odor:	☐ Sewage ☐ Mu		al None	☐ Other:	
Color:	☐ Clear ☐ Gre	en 🗆 Gray	☐ Milky	☐ Other:	
Bottom Deposit:	☐ Sludge ☐ Sol	ids Fine sec	liments None	☐ Other:	·
Surface Deposit:	□ Oil □ Scu	m □ Foam	None	☐ Other:	
nis information is no apprehensive undersi ision on the recreat ase verify that yo	e attach any additional of to be used solely for remarkanding of water conditions ion use analysis but may poor bave completed all so	oval of a recreational of a consequently, this is into conditions that rections, checked all	se designation but ruformation is not intended further analysis applicable boxes	ended to directly influe or that effect another u and that everything	nce a use. g is complete.
veyor's Signature	: Mouth thick		Date of Survey	: <u>5/17/2007</u> onmental Engir	
ganization: <u>E</u> #	_			,	

Data Sheet C - Cross-Sectional Depth Measurements (for estimation of median depth)

	1283 #3	75 .1			T
	Distance from	Depth	Rank	Assigned Rank	Sorted depth
	Stream edge			(Riffle, Run	or 1201?)
	Wetted widtn =	0.05		1 1	
- .	$\frac{2}{4}$	0.3	<u>',</u>	2	
٠ ٩ <u> </u>	3	0.3		3	19.10
	4	0.7		4 00:	6 -pom,
	5 0	0.7		5 2	8.5 %
•	\(\sum_{}	1.0		6	
	7	1.0		7	
	8	.8		8	
	9	18		9	
	10	, <u>8</u>		10	
	1 3 m Width	0.05		11	
	2	0.1		12	19.10
	3	0.2		13	70%
	4	0.3		14	6.4 pem
В	4 5	0.4		15	1,71,00
	v	1 /2.3		16	
	7	0.2		17	
	8	0.2		18	
	9	0.1		19	
	10	0.05		20	
	1 5m Width	0.05		21	
		10.05		22	19.40
	2 3	0.1		23	74.5%
-	4	0.1		24	(O.Bppm
^	4 <u> </u>	0.2		25	
_	6	0.2		26	
	4	0.2		.;	
	8	0.3			
	9	0.2			
	סו	0.1		n	
				,	
					

If there is an odd number of entries find middle rank [(n+1)/2]. The corresponding sorted value depth to the middle rank is the median depth.

If there is an even number of entries, the median depth corresponds to the arithmetic average of the two depth values surrounding the middle rank.

I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA datasheet is true and accurate.

Signed: Olava. Machell	Date: Mac 17, 2007
Organization: EAE, Inc.	Position: Ent Eugs
February 5, 2007	Page 25

	Distance from Stream edge	Depth	Rank	Assigned Rank	Sorted depth
1	3m Width	0.05		1	19.60
2	<u>. </u>	0.1		2	19.60
3	3	0.2		3	6.7ppn
Ÿ		0.2		4	6.6
<u>«</u>	5	0.2		5	
į	0	0.2		6	
_		0.2		7	
9	۴	0.2		8	
	7	0.1		9	
1	0	0.05		10	
l	5m Width	0.05		11	
Z	2	0.1		12	19.8°
2	3	0.2		13	74%
	+	0.1		14	6,7 ppm
_	5	0.1		15	
	<i>ω</i>	0.1		16	
		0.1		17	
d	7	0.1		18	
C	7	0.1		19	
1	0	0.1		20	
	1 5m Width	0.05		21	
	3	0.05		22	19.70
	3	0.1		23	74%
	4	0.2		24	6.7ppm
	ร์	0.3		25	
	6	0.4		26	
	7	015		.i	
	8	0.7			
	9	0.6			
	ID.	0.5		n	

If there is an odd number of entries find middle rank [(n+1)/2]. The corresponding sorted value depth to the middle rank is the median depth.

If there is an even number of entries, the median depth corresponds to the arithmetic average of the two depth values surrounding the middle rank.

Signed: Mach Holling	Date: Mass, 17, 2007
Organization: EAE, Inc.	Position: Ew Cust
February 5, 2007	Page 25

1283 #3		
Distance from	Depth	Rank
Stream edge		

		Distance from	Depth	Rank	Assigned Rank	Sorted depth	
		Stream edge				-	
	1	4 m Width	0.05		1	20°	
16	2		0.05	,	2	20%	
	2 3		0.1		3	80% 7.1 ppm	
	4		0.1		4		
	5		0.05		5		
	5		0.1		6		ı
	7		0.1		7		
	8		0.05		8	,	
	8		0.05		9		
	10)	0.05		10		
	1		0.05		11	20° 80% 7.2 ppm	
	2	1	0.05		12	80%	
T_{H}	2 3 4		0.05		13	7.2 APM	1
,	Ÿ		0.1		14		
	5	,	0.1		15		
	Ø		0.1		16]
	7	1	0.1		17		1
	8		0.1		18		1
	9		0.05		19		1
	ΙÒ		0.05		20		1
	1	5 m Width	0.05		21	200	1
			0.05		22	77%	1
T_{I}	2 3 4	3	0.1		23	6,9 ppm	1
· L	4		0.1		24		1
	5		0.2		25		1
	Ū		0.2		26		10
	-		0.1				Poor
	8		0.1				1
	0	}	0.1				7
		0	0.1		n		
	•						7
							7

If there is an odd number of entries find middle rank [(n+1)/2]. The corresponding sorted value depth to the middle rank is the median depth.

If there is an even number of entries, the median depth corresponds to the arithmetic average of the two depth values surrounding the middle rank.

I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA datasheet is true and accurate.

Signed: Marthell	Date: May 17, 2007
Organization: <u>EAE, Inc.</u>	Position: Euro-Europ
February 5, 2007	Page 25

1287	#3
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	Distance from	Depth	Rank	Assigned Rank	Sorted depth
	Stream edge	_			
l	Stream edge 5 m Width	0.3		1	77.5%
2		0.4	,	2	70.2°
3		0.5		3	6.8 ppm
4		0.5		4	
2 37 757.9		0.5		5	
Ö		0.6		6	
7		0.5		7	
8	·	0.6		8	
9		0.1		9	
iÒ		0.05		10	
1	2.5m width	0.05		11	
2		- Marie		12	20.20
3 4		0.03		13	78% 7.0 ppm
4		0.2		14	7.0 ppm
5		0.3		15	
Ø		0.3		16	
7		0.2		17	
8		0.2		18	
9)	0.1		19	
IV	·	0.1		20	
				21	
			, · · · · · · · · · · · · · · · · · ·	22	
				23	
				24	
		\		25	
				26	
				. i	
			· · · · · · · · · · · · · · · · · · ·		
				n	

If there is an odd number of entries find middle rank [(n+1)/2]. The corresponding sorted value depth to the middle rank is the median depth.

If there is an even number of entries, the median depth corresponds to the arithmetic average of the two depth values surrounding the middle rank.

Signed: Mase W. Mitchell	Date: 5/17/2007
Organization: EAE, Inc.	Position: Environmental Engineer
February 5, 2007	Poge 25



Upstream (Site 1) of Elm Branch



Downstream (Site 1) of Elm Branch

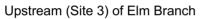


Upstream (Site 2) of Elm Branch



Downstream (Site 2) of Elm Branch







Downstream (Site 3) of Elm Branch

Field Data Sheet for Recreational Use Stream Survey

Data Sheet D—Recreational Use Interview
Stream Name ELAA BRANCH (WBID# 1283)
I. Introduction
Date & Time (include AM or PM): 5-05-07 4/00pm
Interviewed: In person By phone By mail (NOTE: If you are an Interviewee filling out this form to mail back to DNR, proceed to Question #1.)
Interviewee selected because (e.g., house next to stream; standing by stream, etc.)
Interviewer introduction to Interviewee: "My name is, I work for(name of your employer), and I am collecting information on how people use(name of the stream)" ASK: 1.) Are you willing to respond to a survey about this stream? (It will just take a few minutes.) \[\text{Yes} \text{\text{No}} \text{\text{No}} \text{\text{If yes, list contact information for the interviewee below:} \\ \text{Legal name: } \text{\text{\text{IMITER}}} \\ \text{Current mailing address: } \text{\text{\text{I35}} \text{\text{\text{I.E.}} \text{\text{\text{I301}} \text{\text{\text{Pollow}}} \\ \text{Daytime phone number: } \text{\text{\text{\text{U00}}} \text{\text{\text{\text{I301}} \text{\text{\text{Pollow}}}} \\ \text{\text{E-mail address (optional):}}
2.a.) Do you live in this area? Yes No If yes, how many years? 20+
2.b.) If you don't live nearby, are you still familiar with this stream? Yes No If yes, how many years? If no, thank the individual for taking the time to talk to you and conclude the interview.
3.) Are you familiar with this particular stretch of the stream? (show them the map, pointing out local landmarks such as roads, bridges, property lines) If yes, proceed to "II. Personal Use?". If no, proceed to Section V.
 II. Personal Use? 1.) Have you or your family personally used the stream for recreation since November 28, 1975? Yes No If yes, proceed to #3. If no, proceed to #2.
2.a.) List reasons stream not used. Lagoon - Lagoon 15 E g + his Property
2.b.) Proceed to "III. Witnessed Use?".
3.) How do you use the stream?

Whole Body Contact Recreation
Swimming Tubing Snorkeling/Skin Diving Water Skiing
If Interviewee (or family) used the stream for WBCR since Nov. 28, 1975, ask:
4.a.) When (e.g., year(s)?; season?; only after a rain?) and how often (times/year)?
4.b.) Where, exactly? Describe specific location and mark on the map (See map requirements in the protocol).
Fishing Wading Boating Other: List:
If Interviewee (or family) used the stream for SCR since Nov. 28, 1975, ask:
4.c.) When (e.g., year(s)?; season?; only after a rain?) and how often (times/year)?
4.d.) Where, exactly? Describe specific location and mark on the map (See map requirements in the protocol).
III. Witnessed Use?
1.) Have you observed others using this stream for recreation since Nov. 28, 1975? Yes No
If yes, proceed to #2. If no, proceed to, "IV. Anecdotal Use?".
2.) What kinds of uses have you witnessed?
Whole Body Contact Recreation
Swimming Tubing Snorkeling/Skin Diving Water Skiing
If Interviewee witnessed WBCR use since Nov. 28, 1975, ask the following questions: 2.a.) When (e.g., year(s)?; season?; only after a rain?) and how often (times/year)?

February 5, 2007

	? Describe specific location and mark on the map (Seemap requirements)
Ei-Lin Ty P	Secondary Contact Recreation
Fishing Wading	9,22 11,20 2,200
If Interviewee witnessed	SCR use since Nov. 28, 1975, ask the following questions:
2.c.) When (e.g., year(s)?	season?; only after a rain?) and how often (times/year)?
2.d.) Where, exactly the protocol).	? Describe specific location and mark on the map (Seemap requirements
IV. Anecdotal Us	<u>e?</u>
or done yourself, but If yes, proced If no, thank t	about anyone using this stream since Nov. 28, 1975 for recreation – not set just heard about it? Yes Noved to #2. The individual for taking the time to talk to you and conclude the interview. The set is share you heard about?
	Whole Body Contact Recreation
Swimming	Tubing Snorkeling/Skin Diving Water Skiing
If Interviewee hear	d of WBCR use since Nov. 28, 1975, ask the following questions:
	ses take place (e.g., year(s)?; season?; only after a rain?) and how often (times/year)?
	(Intervent)
map requirements in tl	Describe specific location and mark on the map (See

Secondary Contact Recreation		
Fishing Wading Boating Trapping Other: List:		
If Interviewee heard of SCR use since Nov. 28, 1975, ask the following questions:		
2.c.) When did these uses take place (e.g., year(s)?; season?; only after a rain?) and how often (times/year)?		
2.d.) Where, exactly? Describe specific location and mark on the (See map requirements in the protocol).		
V. Others to Contact?		
Can you recommend someone else we could contact that knows the stream? Yes No If yes, that person's contact info (name, address, phone, directions?)		
If no, thank the individual for taking the time to talk to you and conclude the interview.		
VI. Additional Comments		
1.) From the Interviewee:		
2.) From the Interviewer:		
VII. Information on Interviewer		
Has interviewer been trained by Missouri DNR to conduct UAA Interviews? Yes No If yes, how (check all that apply): Workshop? (if so, enter date):		
On-line training seminar?		
On-line training seminar? Followed Interview Instruction Sheets?		
Other_		
Interviewer Information:		
Signature:		
Printed Name:		
Employer (where applicable): Interviewer's phone #: E-mail:		
TIME CALLEY O DITOILE II.		

Field Data Sheet for Recreational Use Stream Survey

Data Sheet D—Recreational Use Interview		
Stream Name ELM BRANCH (WBID# 1283)		
I. Introduction		
Date & Time (include AM or PM):		
Interviewed: In person By phone By mail (NOTE: If you are an Interviewee filling out this form to mail back to DNR, proceed to Question #1.)		
Interviewee selected because (e.g., house next to stream; standing by stream, etc.)		
Interviewer introduction to Interviewee: "My name is, I work for(name of your employer), and I am collecting information on how people use(name of the stream)" ASK: 1.) Are you willing to respond to a survey about this stream? (It will just take a few minutes.) Yes No If yes, list contact information for the interviewee below: Legal name: DICK YOFK (LoreHa) Current mailing address: /099 NE /301		
E-mail address (optional): 2.a.) Do you live in this area? Yes No If yes, how many years?		
2.b.) If you don't live nearby, are you still familiar with this stream? Yes No If yes, how many years? If no, thank the individual for taking the time to talk to you and conclude the interview.		
3.) Are you familiar with this particular stretch of the stream? (show them the map, pointing out local landmarks such as roads, bridges, property lines) Yes No If yes, proceed to "II. Personal Use?". If по, proceed to Section V.		
 II. Personal Use? 1.) Have you or your family personally used the stream for recreation since November 28, 1975? Yes No If yes, proceed to #3. If no, proceed to #2. 		
2.a.) List reasons stream not used.		
2.b.) Proceed to "III. Witnessed Use?".		
3.) How do you use the stream?		

Whole Body Contact Recreation	
Swimming Tubing Snorkeling/Skin Diving Water Skiing	
If Interviewee (or family) used the stream for WBCR since Nov. 28, 1975, ask:	
4.a.) When (e.g., year(s)?; season?; only after a rain?) and how often (times/year)?	
4.b.) Where, exactly? Describe specific location and mark on the map (See map requirement the protocol).	s in
Secondary Contact Recreation	
Fishing Wading Boating Trapping Other: List:	
If Interviewee (or family) used the stream for SCR since Nov. 28, 1975, ask:	
4.c.) When (e.g., year(s)?; season?; only after a rain?) and how often (times/year)?	
4.d.) Where, exactly? Describe specific location and mark on the map (See map requirement the protocol).	s in
III. Witnessed Use?	
1.) Have you observed others using this stream for recreation since Nov. 28, 1975? Yes No If yes, proceed to #2.]
If no, proceed to, "IV. Anecdotal Use?".	
2.) What kinds of uses have you witnessed?	
Whole Body Contact Recreation	
Swimming Tubing Snorkeling/Skin Diving Water Skiing	
If Interviewee witnessed WBCR use since Nov. 28, 1975, ask the following questions: 2.a.) When (e.g., year(s)?; season?; only after a rain?) and how often	
(times/year)?	

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2.b.) Where, exactly? Describe specific location and mark on the map (Seemap requirements in the protocol).
Secondary Contact Recreation
Fishing Wading Boating Trapping Other: List:
If Interviewee witnessed SCR use since Nov. 28, 1975, ask the following questions:
2.c.) When (e.g., year(s)?; season?; only after a rain?) and how often (times/year)?
2.d.) Where, exactly? Describe specific location and mark on the map (Seemap requirements in the protocol).
IV. Anecdotal Use?
 Have you heard about anyone using this stream since Nov. 28, 1975 for recreation – not see or done yourself, but just heard about it? Yes No If yes, proceed to #2. If no, thank the individual for taking the time to talk to you and conclude the interview. What kind of uses have you heard about?
Whole Body Contact Recreation
Swimming Tubing Snorkeling/Skin Diving Water Skiing
If Interviewee heard of WBCR use since Nov. 28, 1975, ask the following questions:
2.a.) When did these uses take place (e.g., year(s)?; season?; only after a rain?) and how often (times/year)?
(thinks year):
2.b.) Where, exactly? Describe specific location and mark on the map (See map requirements in the protocol).

Secondary Contact Recreation		
Fishing Wading Boating Trapping Other: List:		
If Interviewee heard of SCR use since Nov. 28, 1975, ask the following questions:		
2.c.) When did these uses take place (e.g., year(s)?; season?; only after a rain?) and how often (times/year)?		
2.d.) Where, exactly? Describe specific location and mark on the (See map requirements in the protocol).		
V. Others to Contact?		
Can you recommend someone else we could contact that knows the stream? Yes No If yes, that person's contact info (name, address, phone, directions?)		
If no, thank the individual for taking the time to talk to you and conclude the interview.		
VI. Additional Comments		
1.) From the Interviewee:		
2.) From the Interviewer:		
VII. Information on Interviewer		
Has interviewer been trained by Missouri DNR to conduct UAA Interviews? Yes No If yes, how (check all that apply): Workshop? (if so, enter date):		
On-line training seminar?		
Followed Interview Instruction Sheets? Other		
Interviewer Information:		
Signature:		
Printed Name:		
Employer (where applicable): Interviewer's phone #: E-mail:		
Interviewer's phone #: E-mail:		